CONTENTS

Special issue: Fluoro Sugars

Foreword	
1,2-Di-O-acetyl-5-O-benzoyl-3-deoxy-3-fluoro-D-xylofuranose. A versatile precursor for the synthesis of 3-deoxy-3-fluoro-β-D-xylofuranosyl nucleosides as potential antiviral agents G. Gosselin, F. Puech, C. Génu-Dellac and JL. Imbach (Montpellier, France)	1
Fluorination by anchimeric assistance of a diallylamino group: application to the synthesis of some methyl aminofluoropentofuranosides	
MB. Giudicelli, MA. Thomé, D. Picq and D. Anker (Villeurbanne, France)	19
Synthesis of the 2- and 4-monomethyl ethers and the 4-deoxy-4-fluoro derivative of 4-cyanophenyl 1.5-dithio- <i>B</i> -D-xylopyranoside as potential antithrombotic agents	
D. Horton, Y. Li (Columbus, OH, USA), V. Barberousse, F. Bellamy, P. Renaut and S.	
Samreth (Daix, France)	39
"Dibutyltin diperchlorate" for activation of glycosyl fluoride	
H. Maeta, T. Matsumoto and K. Suzuki (Yokohama, Japan)	49
Study on fluorination-toxicity relationships. Syntheses of $1-N-[(2R,3R)-$ and $(2R,3S)-4-$ amino- $3-$ fluoro- $2-$ hydroxybutanoy $]$ derivatives of kanamycins	
Y. Takahashi, C. Ueda, T. Tsuchiya and Y. Kobayashi (Kawasaki, Japan)	57
Syntheses of 2-deoxy-2-fluoro mono- and oligo-saccharide glycosides from glycals and evaluation as glycosidase inhibitors	
J.D. McCarter, M.J. Adam, C. Braun, M. Namchuk, D. Tull and S.G. Withers (Vancouver,	
Canada)	77
Facile synthesis of acetylated glycosyl fluorides derived from di- and tri-saccharides	
J. Jünnemann, J. Thiem (Hamburg, Germany) and C. Pedersen (Lyngby, Denmark)	91
Synthesis of thiazole-4-carboxamide-adenine difluoromethylenediphosphonates substituted with fluorine at $C \cdot 2'$ of the adenosine	
A. Zatorski, P. Lipka (New York, NY, USA), N. Mollova, K.H. Schram (Tucson, AZ, USA), B.M. Goldstein (Rochester, NY, USA), K.A. Watanabe and K.W. Pankiewicz	
(New York, NY, USA)	95
Synthesis of brain-targeted 1-(2-deoxy-2-fluoro-β-D-ribofuranosyl)-(E)-5-(2-iodovinyl)uracil coupled to a dihydropyridine ⇒ pyridinium salt redox chemical-delivery system	
K.W. Morin, L.I. Wiebe and E.E. Knaus (Edmonton, Canada)	109
Synthesis of 3'- and 4'-deoxyfluorolactose and its Me ₃ SiCH ₂ CH ₂ and ceramide derivatives	
T. Ekberg and G. Magnusson (Lund, Sweden)	117
A facile enzymatic synthesis of cellooligosaccharide derivatives using β -lactosyl fluoride	
Si. Shoda, T. Kawasaki, K. Obata and S. Kobayashi (Sendai, Japan)	127

The synthesis of 2,3-dideoxy-2-fluoro-3-C-methylpentose-containing nucleosides via [3,3]-sigma-tropic rearrangements	
K. Araki, W.Q. Yun, J. O'Toole, P.J. Toscano and J.T. Welch (Albany, NY, USA)	139
Recognition of synthetic deoxy and deoxyfluoro analogs of the acceptor α -L-Fuc p -(1 \rightarrow 2)- β -D-Gal p -OR by the blood-group A and B gene-specified glycosyltransferases	
T.L. Lowary and O. Hindsgaul (Edmonton, Canada)	163
Preparations and reactions of acylated and partially acylated glycosyl fluorides J. Thiem and M. Wiesner (Hamburg, Germany)	197
The defluorination of 4-deoxy-4-fluoro-p-glucose in the cytoplasmic membrane of <i>Pseudomonas</i> putida	
M.L. Tejada, J.R. Green and N.F. Taylor (Windsor, ON, Canada)	207
A new method of anomeric protection and activation based on the conversion of glycosyl azides into glycosyl fluorides	
W. Bröder and H. Kunz (Mainz, Germany)	221
Synthetic approach to 4-deoxy-4,4-difluoropyranosides via cycloaddition of 2,4-dialkoxy-1,1-difluoro-1,3-dienes with aldehydes	
T. Taguchi, Y. Kodama and M. Kanazawa (Tokyo, Japan)	243
Direct ¹⁹ F NMR titration of phosphorylase molecules binding to fluorine-labelled glycogen particles	
W. Stirtan and S.G. Withers (Vancouver, Canada)	253
Synthesis of DL-1-deoxy-1-fluoro-6-O-methyl-chiro-inositol: confirmation of a structural-DAST fluorination correlation	
S.S. Yang, Yc.P. Chiang and T.R. Beattie (Rahway, NJ, USA)	259
Highly selective cleavage of furanosyl linkages in liquid hydrogen fluoride X. Qi, B.A. Behrens and A.J. Mort (Stillwater, OK, USA)	265
Fluorination of methyl 6-deoxy-1-thiohexopyranosides with diethylaminosulfur trifluoride (DAST), and the formation of unexpected products	
T. Ando, H. Ishida, M. Kiso and A. Hasegawa (Gifu, Japan)	275
End of Special Issue	
Regular papers	
(¹³ C)-Substituted sucrose: ¹³ C ⁻¹ H and ¹³ C ⁻¹³ C spin coupling constants to assess furanose ring and glycosidic bond conformations in aqueous solution	
J.M. Duker and A.S. Serianni (Notre Dame, IN, USA)	281
Solid-state conformations of 2,6-cis- and 2,6-trans-substituted dihydropyran-3-ones	
F.W. Lichtenthaler, S. Rönninger, H.J. Lindner, S. Immel and E. Cuny (Darmstadt, Germany)	205
Germany)	305
Crystal structures of cyclomaltoheptaose (β -cyclodextrin) complexed with ethylene glycol \cdot 8.0H $_2$ O and glycerol \cdot 7.2H $_2$ O	
K. Geßler, T. Steiner, G. Koellner and W. Saenger (Berlin, Germany)	327

Contents / Carbohydr. Re	s. 249 (1992) C15–C17
--------------------------	-----------------------

Subject index

C17

C11

Mode of action of $(1 \rightarrow 4)$ - β -D-arabinoxylan arabinofuranohydrolase (AXH) and α -L-arabino-furanosidases on alkali-extractable wheat-flour arabinoxylan	
F.J.M. Kormelink, H. Gruppen and A.G.J. Voragen (Wageningen, Netherlands)	345
Mode of action of the xylan-degrading enzymes from Aspergillus awamori on alkali-extractable cereal arabinoxylans	
F.J.M. Kormelink, H. Gruppen, R.J. Viëtor and A.G.J. Voragen (Wageningen, Netherlands)	355
Characterisation by 1 H NMR spectroscopy of oligosaccharides derived from alkali-extractable wheat-flour arabinoxylan by digestion with endo- $(1 \rightarrow 4)$ - β -D-xylanase III from <i>Aspergillus awamori</i>	
F.J.M. Kormelink (Wageningen, Netherlands), R.A. Hoffmann (Utrecht, Netherlands), H. Gruppen, A.G.J. Voragen (Wageningen, Netherlands), J.P. Kamerling and J.F.G. Vliegenthart (Utrecht, Netherlands)	369
Major structural features of the cell wall arabinogalactans of <i>Mycobacterium, Rhodococcus</i> , and <i>Nocardia</i> spp. M. Daffe, M. McNeil and P.J. Brennan (Fort Collins, CO, USA)	383
Non	
Notes Stereoselective synthesis of sugar-amino acid conjugates. A novel class of amino sugars E.A. Couladouros, C.D. Apostolopoulos and M.P. Georgiadis (Athens, Greece)	399
Glucuronoxylomannan of Cryptococcus neoformans obtained from patients with AIDS	
R. Cherniak, L.C. Morris, S.A. Meyer (Atlanta, GA, USA) and T.B. Mitchell (Durham, NC, USA)	405
Book reviews	C1
Announcements	C7
Author index	C9